

Work Order ID 140388

December 23, 2015 11:09:27 AM

D 4822-2  
B 140388  
REV. C

\*140388\*

Page 1

Item ID: D4822-2

Revision ID:

Item Name: Upper Right Deflector

Start Date: 12/23/2015 Start Qty: 4.00

Required Date: 3/25/2016 Req'd Qty: 4.00

Reference:

Accept

\*N900040100\*

Setup Start

\*NS1\*

Stop

\*NS2\*

Cust Item ID:

Customer:

Approvals:

Process Plan: SH

Date: 015122

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

\*NR1\*

Stop

\*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| D4822    | C            |

100

0.00

\*100\*

Bandsaw

Jeaspa Bandsaw

Memo

CUT AT 32.00" LONG

mat band @ 32"

0.00

CL

JAN 05 2016

110

0.00

\*110\*

Outsource5

Outsource process - Machining

Memo

ISSUE P/O: 30870  
POSSIBLE SUPPLIER: WEJAY

Certificate of conformaty required

0.00

CL

JAN 05 2016

9

115

Receive & Inspect for Damage & Mat'l Certs

0.00

\*115\*

Packaging

Packaging

Memo

0.00

FEB 2 - 2016

DAS  
6  
9-89

9

# Work Order ID 140388

**\*140388\***

Page 2

December 23, 2015 11:09:27 AM

Item ID: D4822-2 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Upper Right Deflector  
 Start Date: 12/23/2015 Start Qty: 4.00 **\*4\*** Cust Item ID:  
 Required Date: 3/25/2016 Req'd Qty: 4.00 **\*4\*** Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description           | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp    |
|--------------------------------|------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|-------------------|
| 117                            | QC6- Inspect dimensions to drawing | 0.00                 |         |        |              |               |               |                  | DAS<br>38<br>9-89 |
| <b>*117*</b>                   |                                    |                      |         |        |              |               |               |                  |                   |
| QC                             | Memo                               | 0.00                 |         |        |              |               |               |                  |                   |
| Quality Control                |                                    |                      |         |        |              |               |               |                  |                   |

FEB 22 2016

|                             |                                                                                |      |  |  |  |  |  |  |                   |
|-----------------------------|--------------------------------------------------------------------------------|------|--|--|--|--|--|--|-------------------|
| 120                         |                                                                                | 0.00 |  |  |  |  |  |  | DAS<br>13<br>9-89 |
| <b>*120*</b>                |                                                                                |      |  |  |  |  |  |  |                   |
| Outsource4                  | Memo                                                                           | 0.00 |  |  |  |  |  |  |                   |
| Outsource process - Anodize | HARD ANODIZE IAW MIL-A-8625 TYPE 3<br>COLOUR BLACK<br>PRIME AS PER DWG NOTE #2 |      |  |  |  |  |  |  |                   |

P10: 31446

receive ~~9X~~ 9X 16-03-8

|                 |                           |      |  |  |  |  |  |  |                   |
|-----------------|---------------------------|------|--|--|--|--|--|--|-------------------|
| 122             | QC14- Inspect Spray Paint | 0.00 |  |  |  |  |  |  | DAS<br>38<br>9-89 |
| <b>*122*</b>    |                           |      |  |  |  |  |  |  |                   |
| QC              | Memo                      | 0.00 |  |  |  |  |  |  |                   |
| Quality Control |                           |      |  |  |  |  |  |  |                   |

MAR 08 2016

# Work Order ID 140388

\*140388\*

Page 3

December 23, 2015 11:09:27 AM

Item ID: D4822-2 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Upper Right Deflector  
 Start Date: 12/23/2015 Start Qty: 4.00 \*4\* Cust Item ID:  
 Required Date: 3/25/2016 Req'd Qty: 4.00 \*4\* Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description                            | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp                   |
|--------------------------------|-----------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------------------------|
| 140                            | QC5- Inspect part completeness to step on W/O       | 0.00                 |         |        |              | 9             |               |                  | DAS<br>38<br>9-89<br>MAR 08 2016 |
| *140*                          |                                                     |                      |         |        |              |               |               |                  |                                  |
| QC                             | Memo                                                | 0.00                 |         |        |              |               |               |                  |                                  |
| Quality Control                |                                                     |                      |         |        |              |               |               |                  |                                  |
| 170                            | Identify as per dwg & Stock Location: <u>SCK042</u> | 0.00                 |         |        |              | 9             |               |                  | DAS<br>6<br>9-89<br>MAR 08 2016  |
| *170*                          |                                                     |                      |         |        |              |               |               |                  |                                  |
| Packaging                      | Memo                                                | 0.00                 |         |        |              |               |               |                  |                                  |
| Packaging                      |                                                     |                      |         |        |              |               |               |                  |                                  |
| 190                            | QC21- Final Inspection - Work Order Release         | 0.00                 |         |        |              |               |               |                  |                                  |
| *190*                          |                                                     |                      |         |        |              |               |               |                  |                                  |
| QC                             | Memo                                                | 0.00                 |         |        |              |               |               |                  | MCS<br>MAR 10 2016               |
| Quality Control                |                                                     |                      |         |        |              |               |               |                  |                                  |

MAR 09 2016

MCS

# Picklist Print

December 23, 2015 11:09:34 AM

Page 1

Work Order ID: 140388

\*140388\*

Parent Item: D4822-2

\*D4822-2\*

Parent Item Name: Upper Right Deflector

Start Date: 12/23/2015

Required Date: 3/25/2016

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A NEW ISSUE 13-04-19 JLM VERIFIED BY:DD

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

|          |  |           |    |  |  |  |      |        |  |   |  |  |  |
|----------|--|-----------|----|--|--|--|------|--------|--|---|--|--|--|
| D4822-2P |  | Purchased | No |  |  |  | Each | 0.0000 |  | 4 |  |  |  |
|----------|--|-----------|----|--|--|--|------|--------|--|---|--|--|--|

\*D4822-2P\*

Upper Right Deflector

|                     |  |           |    |  |  |  |   |         |  |          |  |  |  |
|---------------------|--|-----------|----|--|--|--|---|---------|--|----------|--|--|--|
| M7075T6B4.000X4.000 |  | Purchased | No |  |  |  | f | 34.6666 |  | 11.36842 |  |  |  |
|---------------------|--|-----------|----|--|--|--|---|---------|--|----------|--|--|--|

\*M7075T6B4 000X4 000\*

7075-T6 BAR 4.000" X 4.000"

CUT AT 32" LONG

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| MAT024   | 26.6666 |          |
| m133609  | 16      |          |
| m133886  | 10.6666 |          |
| ST024    | 8       |          |
| m131552  | 8       |          |

\*\*

\*\*

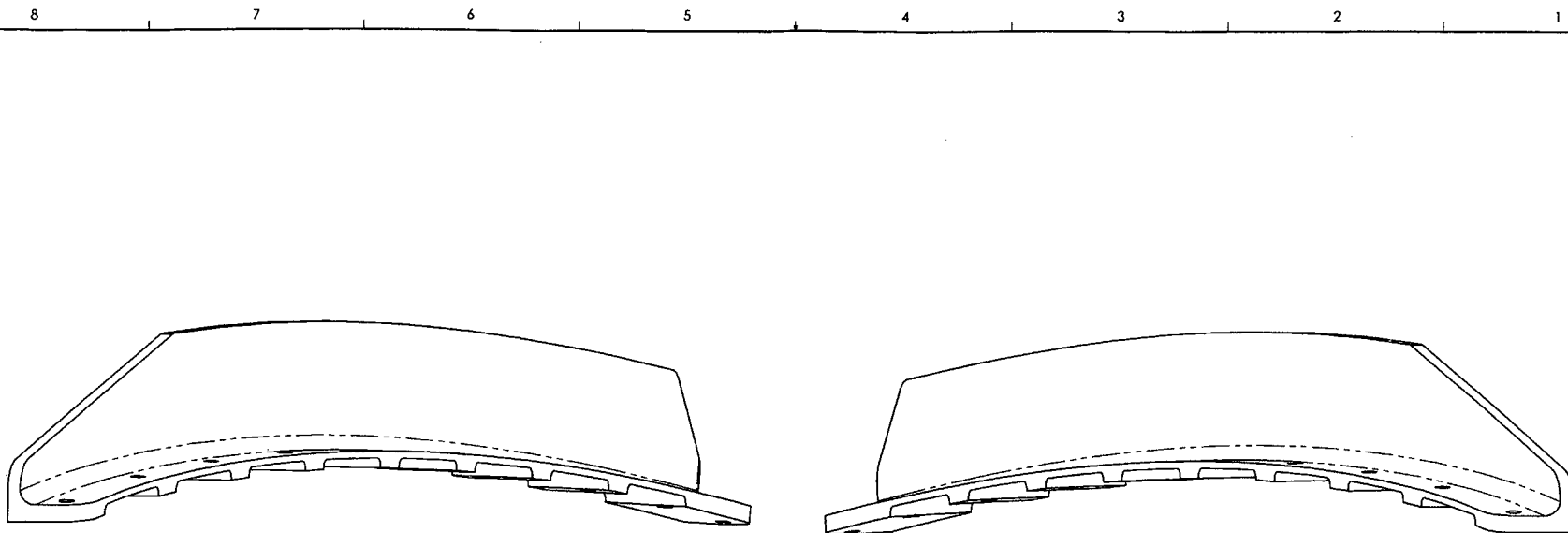
m 133930 x 21.3333

JAN 07 2016 CL

87 M133930

\$ x M133609

SP 16-03-08



**D4822-1 UPPER DEFLECTOR LH**

**D4822-2 UPPER DEFLECTOR RH**

**RELEASED**

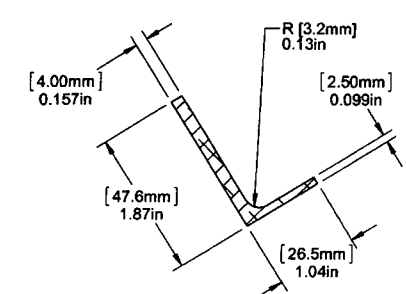
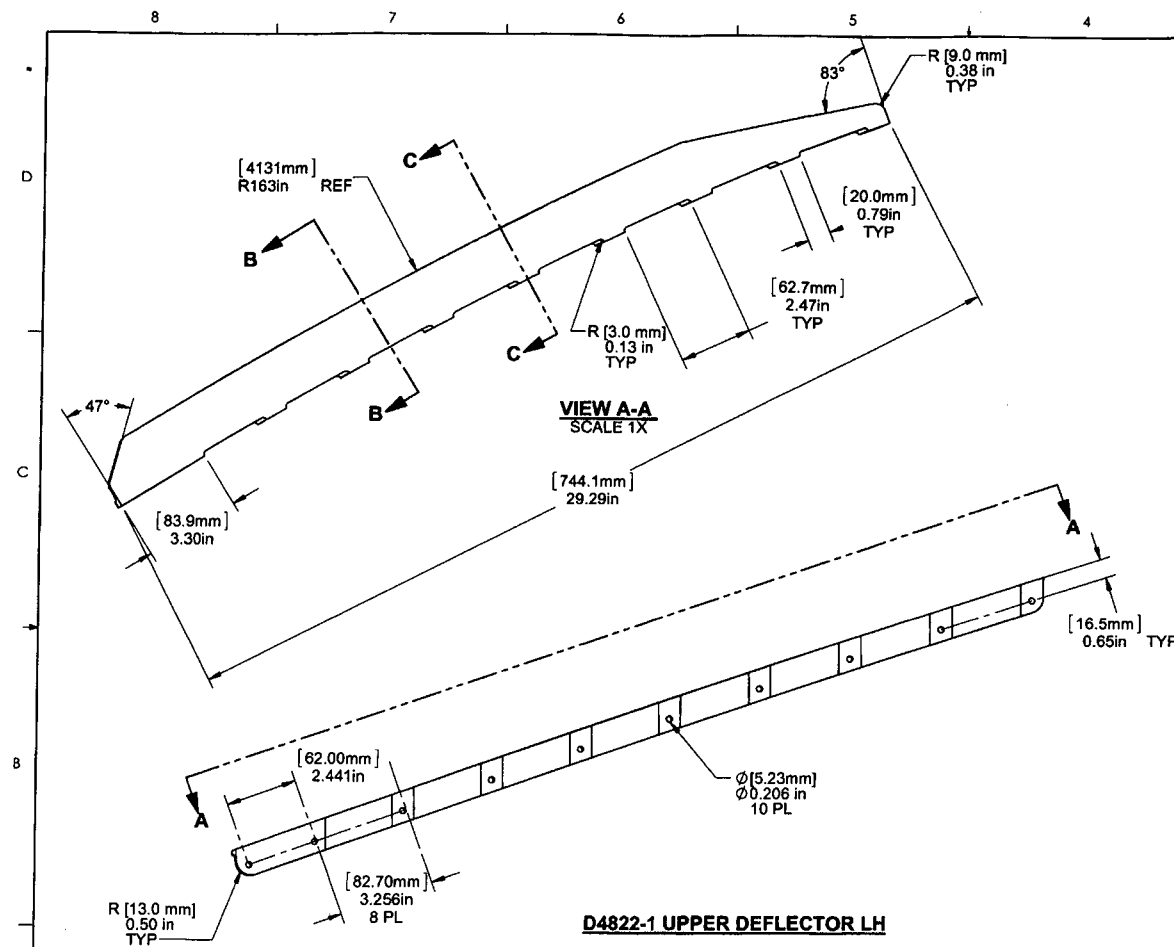
2014 FEB 25 *g*  
ECN 14-516

20151223

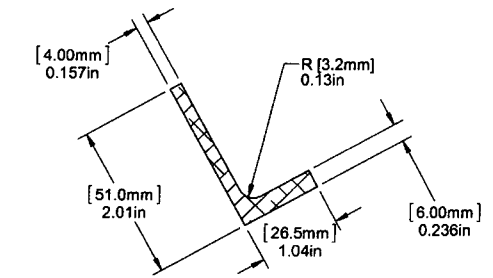
*SH 140388*

| C          | DRAWING REVISED TO NEW CUSTOMER CAD DATA,<br>RIVET HOLES ADDED | DB                                                                                                                                                                                                                                                                                               | 14.02.04     |
|------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| B          | CORRECTED WEIGHT                                               | DW                                                                                                                                                                                                                                                                                               | 13.09.24     |
| A          | NEW RELEASE                                                    | DB                                                                                                                                                                                                                                                                                               | 13.05.23     |
| REV.       | DESCRIPTION                                                    | BY                                                                                                                                                                                                                                                                                               | DATE         |
| DESIGN     | DB                                                             | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                         |              |
| DRAWN      | VS                                                             |                                                                                                                                                                                                                                                                                                  |              |
| CHECKED    | DC                                                             | DRAWING NO.                                                                                                                                                                                                                                                                                      | REV. C       |
| MFG. APPR. | EPDMA                                                          | <b>D4822</b>                                                                                                                                                                                                                                                                                     | SHEET 1 OF 3 |
| APPROVED   | HS                                                             | TITLE                                                                                                                                                                                                                                                                                            | SCALE        |
| DE APPR.   | DS                                                             | <b>UPPER DEFLECTOR</b>                                                                                                                                                                                                                                                                           | NTS          |
| DATE       | 14.02.04                                                       | <small>COPYRIGHT © 2013 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br/>NOT TO BE USED FOR ANY PURPOSE OR COPIES OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br/>WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

APPROVED



**SECTION B-B**  
SCALE 1.5X



**SECTION C-C**  
SCALE 1.5X

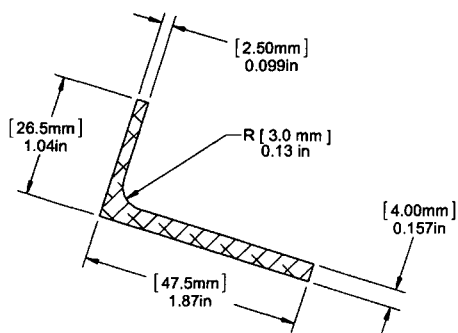
- NOTES:**
- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR  
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR  
PER AMS-QQ-A-200/11 (REF DART SPEC. M7075T6B)
  - 2) FINISH: HARD ANODIZE IAW MIL-A-8625F TYPE III, CLASS 2, COLOR BLACK,  
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX, AS PER QSI 005.
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4822-1", AGUSTA WESTLAND P/N "TBD", REVISION, BATCH NUMBER AND MANUFACTURE DATE,  
USING AN X-TENSION STAMP, AS PER QSI 044 METHOD 6.2
  - 7) WEIGHT: 1.22 LBS (0.6 KG)
  - 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: D4822-1-c.IGES (OR D4822-1-c.STEP)

**RELEASED**  
2014 FEB 25

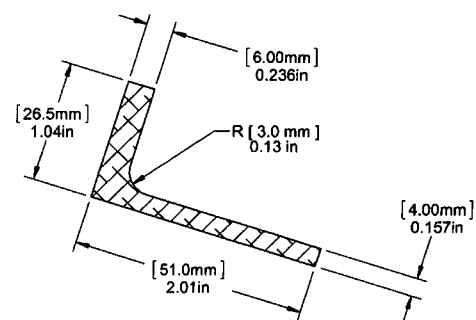
APPROVED

|            |          |                                                                                                                                                                                                                                                                                                  |              |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | DB       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                         |              |
| DRAWN      | VS       |                                                                                                                                                                                                                                                                                                  |              |
| CHECKED    | DC       | DRAWING NO.                                                                                                                                                                                                                                                                                      | REV. C       |
| MFG. APPR. | EPDMA    | <b>D4822</b>                                                                                                                                                                                                                                                                                     | SHEET 2 OF 3 |
| APPROVED   | HS       | TITLE                                                                                                                                                                                                                                                                                            | SCALE        |
| DE APPR.   | DS       | <b>UPPER DEFLECTOR</b>                                                                                                                                                                                                                                                                           | NTS          |
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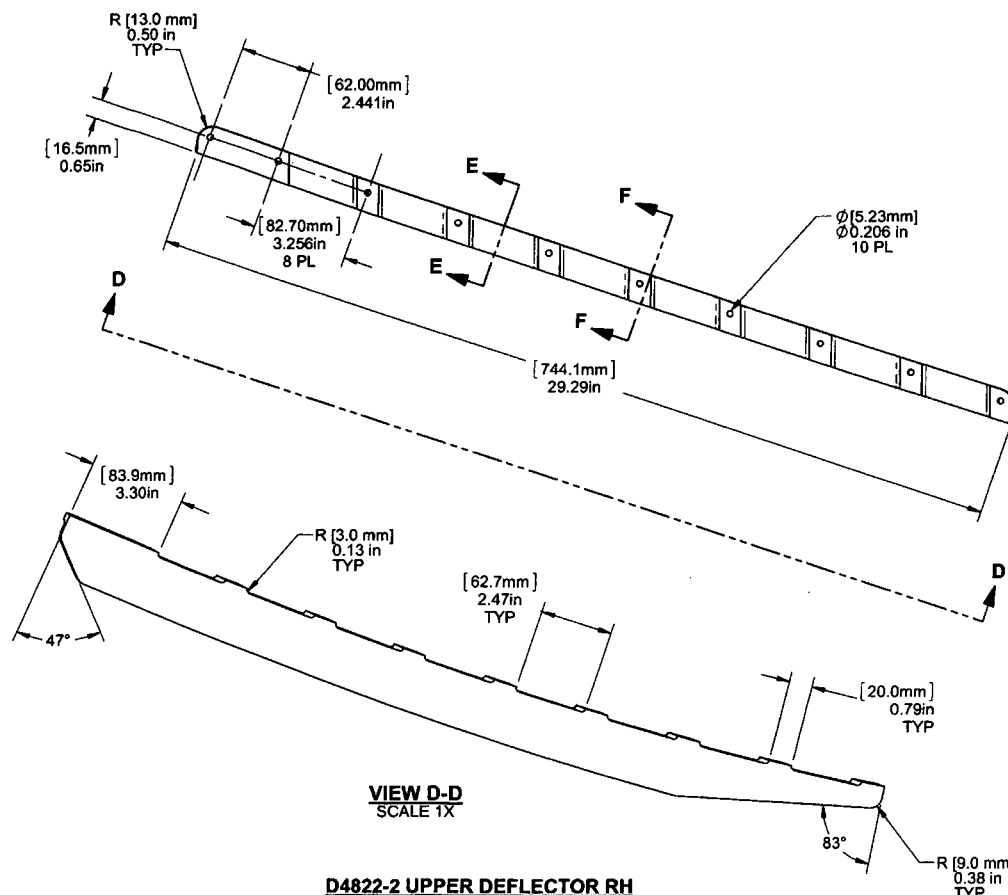
8 7 6 5 4 3 2 1



**SECTION E-E**  
SCALE 2X



**SECTION F-F**  
SCALE 2X



**VIEW D-D**  
SCALE 1X

**D4822-2 UPPER DEFLECTOR RH**

**RELEASED**

2014 FEB 25

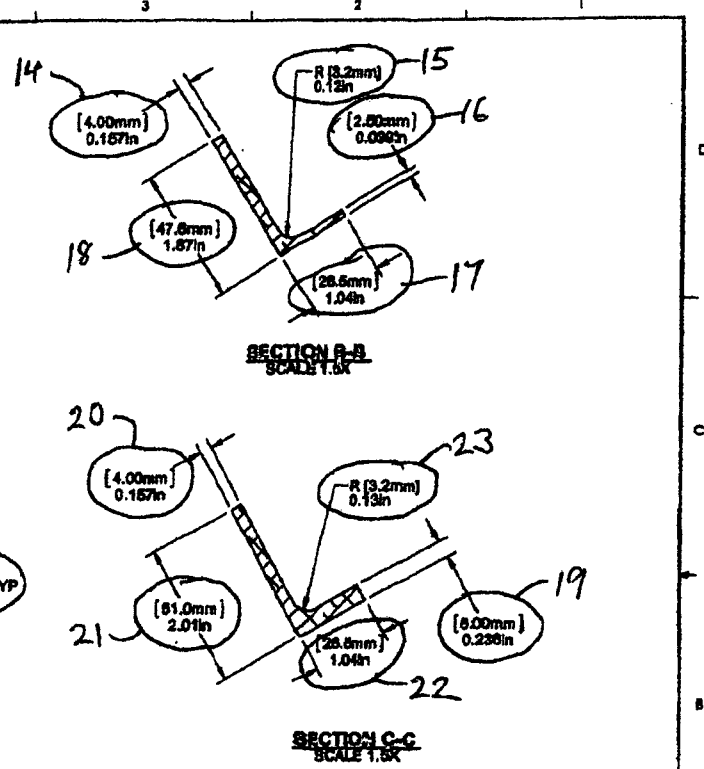
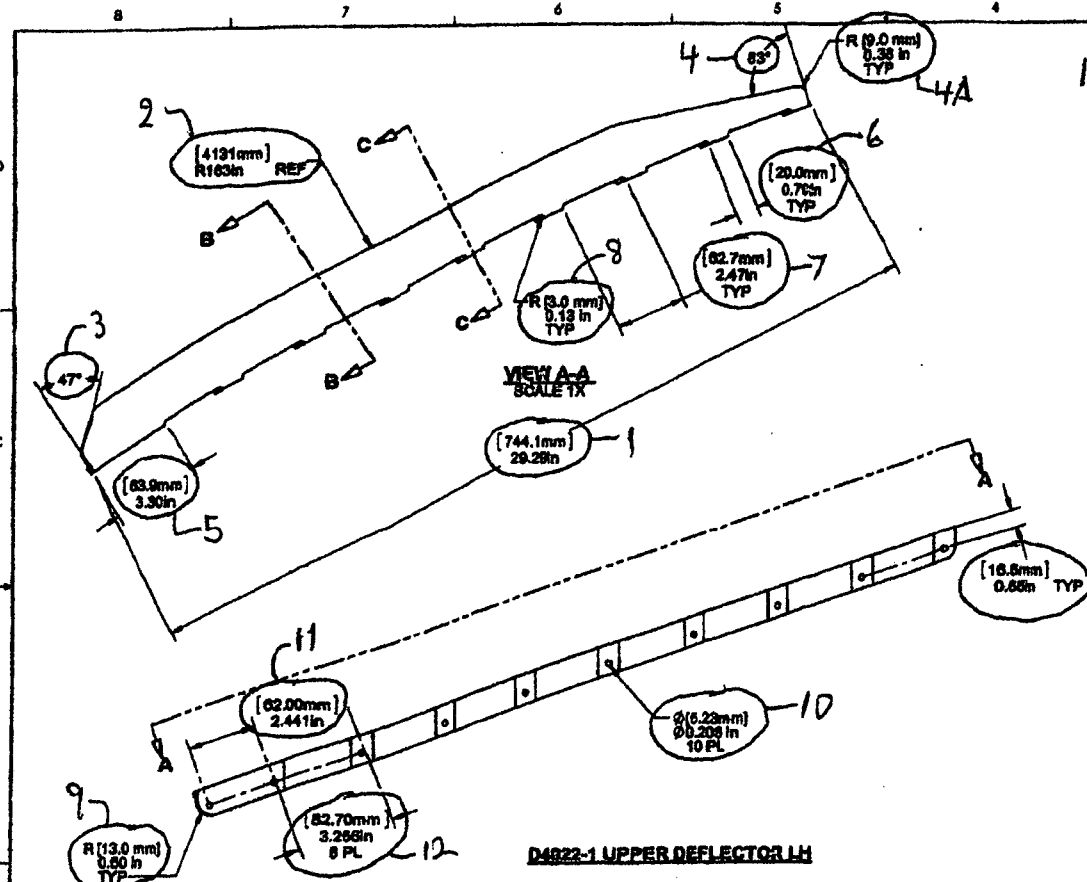
**NOTES:**

- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR  
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR  
PER AMS-QQ-A-200/11 (REF DART SPEC. M7075T6B)
- 2) FINISH: HARD ANODIZE IAW MIL-A-8625F TYPE III, CLASS 2, COLOR BLACK,  
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX, AS PER QSI 005.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4822-2", AGUSTA WESTLAND P/N "TBD", REVISION, BATCH NUMBER AND MANUFACTURE DATE,  
USING AN X-TENSION STAMP, AS PER QSI 044 METHOD 6.2
- 7) WEIGHT: 1.22 LBS (0.6 KG)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: D4822-2-c.IGES (D4822-2-c.STEP)

APPROVED

|            |          |                                                                                                                                                                                                                                                                                                  |              |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | DB       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                         |              |
| DRAWN      | VS       |                                                                                                                                                                                                                                                                                                  |              |
| CHECKED    | DC       | DRAWING NO.                                                                                                                                                                                                                                                                                      | REV. C       |
| MFG. APPR. | EPDMA    | <b>D4822</b>                                                                                                                                                                                                                                                                                     | SHEET 3 OF 3 |
| APPROVED   | HS       | TITLE                                                                                                                                                                                                                                                                                            | SCALE        |
| DE APPR.   | DS       | <b>UPPER DEFLECTOR</b>                                                                                                                                                                                                                                                                           | NTS          |
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8 7 6 5 4 3 2 1



RELEASED  
2014 FEB 25

NOTES:

- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR  
PER AMS QQ-A-225/9 (OR AMS 4122/4123/4184/4187) OR  
PER AMS QQ-A-200/11 (REF DART SPEC. M70/5183)
- 2) FINISH: HARD ANODIZE IAW MIL-A-8325F TYPE II, CLASS 2, COLOR BLACK,  
PRIME IAW MIL-P-23377J TYPE I CLASS R; 1-2 MIL MAX, AS PER QSI 005.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4822-1", AGUSTA WESTLAND P/N "T8D", REVISION, BATCH NUMBER AND MANUFACTURE DATE,  
USING AN X-TENSION STAMP, AS PER QSI 044 METHOD 6.2
- 7) WEIGHT: 1.22 LBS (0.5 KG)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: D4822-1-c.IGES (OR D4822-1-c.STEP)

|            |          |                                        |              |
|------------|----------|----------------------------------------|--------------|
| DESIGN     | DS       | DART AEROSPACE LTD                     |              |
| DRAWN      | VS       | HAMMERSLEY, ONTARIO, CANADA            |              |
| CHECKED    | DC       | DRAWING NO.                            | REV. C       |
| MFG. APPR. | EPDMA    | D4822                                  | SHEET 2 OF 3 |
| APPROVED   | HS       | TITLE                                  | SCALE        |
| DE APPR.   | DS       | UPPER DEFLECTOR                        | NTS          |
| DATE       | 14.02.04 | COPYRIGHT © 1993 BY DART AEROSPACE LTD |              |





600 O'CONNOR DRIVE  
KINGSTON, ONTARIO  
K7P 1N3

# INSPECTION / TEST REPORT

JOB No. 37749

PAGE: 1 of 1

CUSTOMER: Dart Aerospace

CUST. P.O.# PO 30870

PART No. D4822-1

DESCRIPTION: Deflector Left Hand

DWG No. D4822

REV. C

E.C.O. --

MATERIAL:

INSPECTOR: *[Signature]*

QUANTITY  
REC'D: 1

ACCEPT: 1

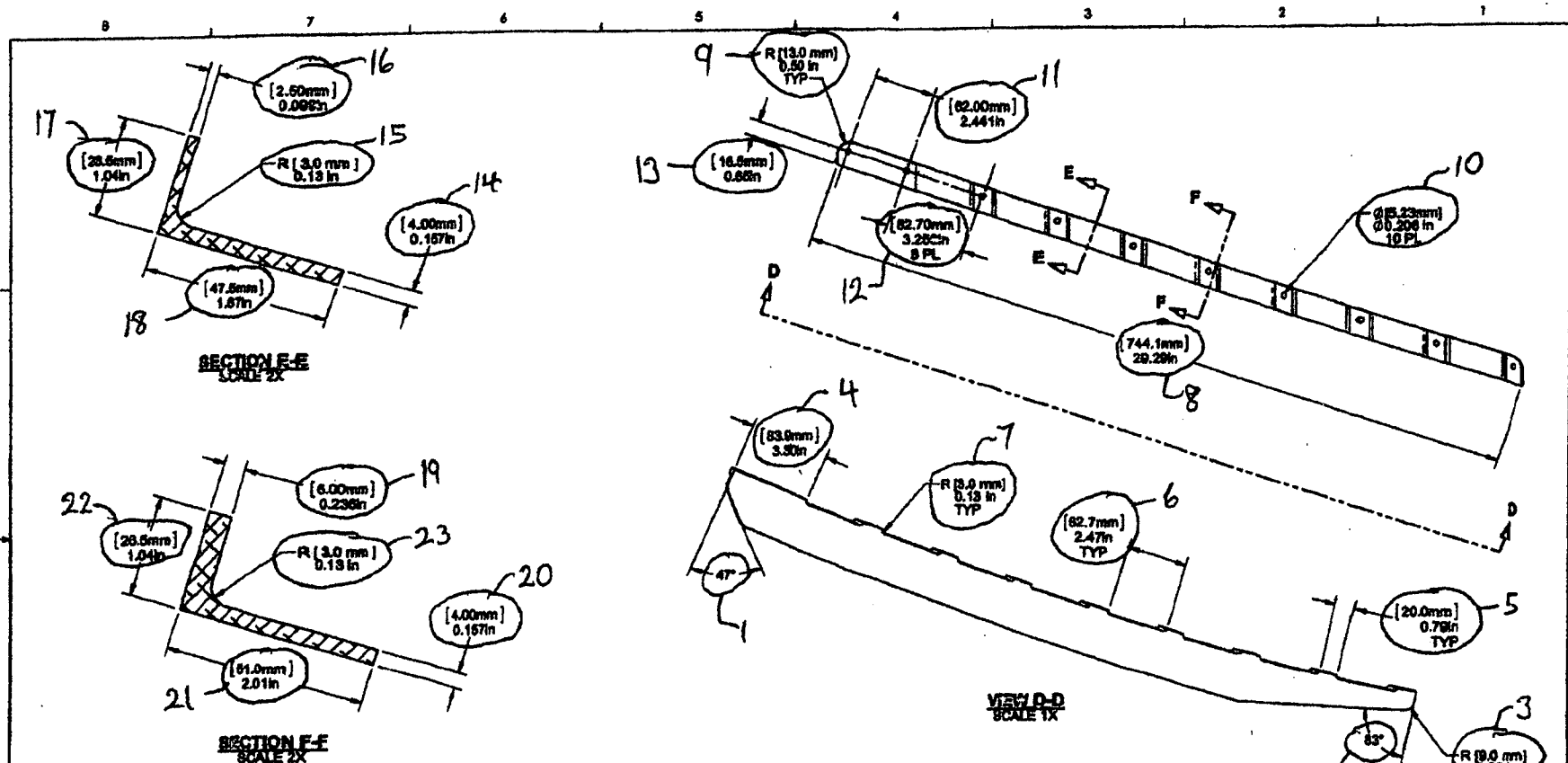
REJECT: —

N.C.R.# —

DATE: JAN 29/16

INSTRUCTIONS, COMMENTS: Standard Tolerances per DART QSI 018 unless otherwise noted  
-First Article Inspection-

| ITEM<br>REF.<br>No. | CHARACTERISTIC<br>(DIMS IN mm) | DETAILS             | TOLERANCE     | DWG<br>SHT/ZONE | RESULT      | QTY.<br>INSP. | COMMENTS<br>(ACC. REJ.<br>REW. NMR #) |
|---------------------|--------------------------------|---------------------|---------------|-----------------|-------------|---------------|---------------------------------------|
| 1                   | 29.29"                         | View A-A            | ±.03          | 2/C6            | 29.31       | 1             | Acc-                                  |
| 2                   | R163" ref                      |                     | ±.10          | 2/D7            | O.K.        | 1             | "                                     |
| 3                   | 47°                            |                     | ±.5°          | 2/C8            | 46.5°       | 1             | "                                     |
| 4                   | 83°                            |                     | ±.5°          | 2/D5            | 82.5°       | 1             | "                                     |
| 4A                  | R 0.38" typ.                   |                     | ±.03          | 2/D4            | R.38 TYP    | 1             | "                                     |
| 5                   | 3.30"                          |                     | ±.03          | 2/C8            | 3.311       | 1             | "                                     |
| 6                   | 0.79" typ.                     |                     | ±.03          | 2/D5            | 800/811     | 1             | "                                     |
| 7                   | 2.47                           |                     | ±.03          | 2/D5            | 2.455/2.470 | 1             | "                                     |
| 8                   | R 0.13 typ.                    | 10 pl.              | ±.03          | 2/C6            | R.125 TYP   | 1             | "                                     |
| 9                   | R0.50" typ                     |                     | ±.03          | 2/B8            | R.500 TYP   | 1             | "                                     |
| 10                  | Ø0.206 hole thru               |                     | + .005/- .001 | 2/B5            | Ø.208 TYP   | 1             | "                                     |
| 11                  | 2.441"                         | 8 pl.               | ±.010         | 2/B7            | 2.443       | 1             | "                                     |
| 12                  | 3.256" typ.                    |                     | ±.010         | 2/B7            | 3.255/3.258 | 1             | "                                     |
| 13                  | 0.65" typ.                     |                     | ±.03          | 2/B4            | .643/.646   | 1             | "                                     |
| 14                  | 0.157"                         | Section B-B         | ±.01          | 2/D3            | .158/.164   | 1             | "                                     |
| 15                  | R0.13" typ.                    |                     | ±.03          | 2/D2            | R.19 TYP    | 1             | "                                     |
| 16                  | .099"                          |                     | ±.01          | 2/D2            | .099/.105   | 1             | "                                     |
| 17                  | 1.04"                          |                     | ±.03          | 2/D3            | 1.040/1.044 | 1             | "                                     |
| 18                  | 1.87"                          | Section C-C         | ±.03          | 2/D3            | 1.875/1.878 | 1             | "                                     |
| 19                  | 0.236"                         |                     | ±.01          | 2/B1            | .236/.243   | 1             | "                                     |
| 20                  | 0.157"                         |                     | ±.01          | 2/C3            | .158/.164   | 1             | "                                     |
| 21                  | 2.01"                          |                     | ±.03          | 2/B3            | 2.012/2.017 | 1             | "                                     |
| 22                  | 1.04"                          | → .197 R ON E-MODEL | ±.03          | 2/B2            | 1.040/1.044 | 1             | "                                     |
| 23                  | R0.13"                         |                     | ±.10          | 2/C2            | R.187 TYP   | 1             | "                                     |
| 24                  | Deburring                      | Per note 5          | .005-.010     | 2/A8            | O.K.        | 1             | "                                     |
| 25                  | Identification                 | Per note 6          |               | 2/A8            | N/A         | 1             | "                                     |



- NOTES:**
- 1) MATERIAL: 7075-T6 (OR T651/T651D/T6511/T62) ALUMINUM BAR  
PER AMS-QQ-A-228/9 (OR AMS 4122/4123/4188/4187) OR  
PER AMS-QQ-A-200/11 (REF DART SPEC. M7075T6)
  - 2) FINISH: HARD ANODIZE IAW MIL-A-8226F TYPE II, CLASS 2, COLOR BLACK.  
PRIME IAW MIL-P-23377 TYPE I CLASS II, 1-3 MIL MAX AS PER QSI 005.
  - 3) TOLERANCES: PER DART QSI 016 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.003 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4822-2", AGUSTA WESTLAND P/N "TBD", REVISION, BATCH NUMBER AND MANUFACTURE DATE,  
USING AN X-TENSION STAMP, AS PER QSI 044 METHOD 6.2
  - 7) WEIGHT: 1.22 LBS (0.6 KG)
  - 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: D4822-2-01GES (D4822-2-01STEP)

|            |          |                                        |              |
|------------|----------|----------------------------------------|--------------|
| DESIGN     | DS       | DART AEROSPACE LTD                     |              |
| DRAWN      | VS       | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED    | OC       | DRAWING NO.                            | REV. C       |
| MFG. APPR. | EPOMA    | D4822                                  | SHEET 3 OF 3 |
| APPROVED   | HS       | TITLE                                  | SCALE        |
| DE APPR.   | DS       | UPPER DEFLECTOR                        | NTS          |
| DATE       | 14.02.04 | COPYRIGHT © 2004 BY DART AEROSPACE LTD |              |



600 O'CONNOR DRIVE  
KINGSTON, ONTARIO  
K7P 1N3

# INSPECTION / TEST REPORT

JOB No.

37749

PAGE: 1 of 1

CUSTOMER: Dart Aerospace

CUST. P.O.# PO 30870

PART No. D4822-2

DESCRIPTION: Deflector Right Hand

DWG No. D4822

REV. C

E.C.O. --

MATERIAL:

INSPECTOR: *[Signature]*

QUANTITY  
REC'D: 1

ACCEPT: 1

REJECT: -

N.C.R.# -

DATE:

JAN 29 / 16

INSTRUCTIONS, COMMENTS: Standard Tolerances per DART QSI 018 unless otherwise noted

| ITEM<br>REF.<br>No. | CHARACTERISTIC<br>(DIMS IN mm)     | DETAILS     | TOLERANCE     | DWG<br>SHT/ZONE | RESULT      | QTY.<br>INSP. | COMMENTS<br>(ACC. REJ.<br>REW. NMR #) |
|---------------------|------------------------------------|-------------|---------------|-----------------|-------------|---------------|---------------------------------------|
| 1                   | 47°                                | View D-D    | ±.5°          | 3/B5            | 46.5°       | 1             | Acc.                                  |
| 2                   | 83°                                |             | ±.5°          | 3/B2            | 82.5°       | 1             | "                                     |
| 3                   | R 0.38" typ.                       |             | ±.03          | 3/B1            | R.38 typ.   | 1             | "                                     |
| 4                   | 3.30"                              |             | ±.03          | 3/C5            | 3.308       | 1             | "                                     |
| 5                   | 0.79" typ.                         |             | ±.03          | 3/B1            | .794/.805   | 1             | "                                     |
| 6                   | 2.47                               |             | ±.03          | 3/B3            | 2.457/2.460 | 1             | "                                     |
| 7                   | R 0.13 typ.                        |             | ±.03          | 3/C4            | R.125 typ.  | 1             | "                                     |
| 8                   | 29.29"                             |             | ±.03          | 3/C3            | 29.315      | 1             | "                                     |
| 9                   | R0.50" typ                         |             | ±.03          | 3/D5            | R.500 TYP.  | 1             | "                                     |
| 10                  | Ø0.206 hole thru                   | 10 pl.      | +0.005/-0.001 | 3/D1            | .2068 TYP.  | 1             | "                                     |
| 11                  | 2.441"                             |             | ±.010         | 3/D4            | 2.442       | 1             | "                                     |
| 12                  | 3.256" typ.                        | 8 pl.       | ±.010         | 3/D4            | 3.255/3.257 | 1             | "                                     |
| 13                  | 0.65" typ.                         | 10 pl.      | ±.03          | 3/D5            | .648/.652   | 1             | "                                     |
| 14                  | 0.157"                             | Section E-E | ±.01          | 3/D6            | .1595/.161  | 1             | "                                     |
| 15                  | R0.13" typ. - .197" RAD ON E-MODEL |             | ±.03          | 3/D7            | R.190 TYP.  | 1             | "                                     |
| 16                  | .099"                              |             | ±.01          | 3/D7            | .097/.107   | 1             | "                                     |
| 17                  | 1.04"                              |             | ±.03          | 3/D8            | 1.045/1.046 | 1             | "                                     |
| 18                  | 1.87"                              | Section F-F | ±.03          | 3/C7            | 1.869/1.874 | 1             | "                                     |
| 19                  | 0.236"                             |             | ±.01          | 3/C7            | .233/.244   | 1             | "                                     |
| 20                  | 0.157"                             |             | ±.01          | 3/B6            | .1595/.161  | 1             | "                                     |
| 21                  | 2.01"                              |             | ±.03          | 3/B7            | 2.003/2.010 | 1             | "                                     |
| 22                  | 1.04"                              |             | ±.03          | 3/B8            | 1.045/1.046 | 1             | "                                     |
| 23                  | R0.13" - .197" RAD ON E-MODEL      |             | ±.10          | 3/B7            | R.190 TYP.  | 1             | "                                     |
| 24                  | Deburring                          | Per note 5  | .005-.010     | 3/A8            | O.K.        | 1             | "                                     |
| 25                  | Identification                     | Per note 6  |               | 3/A8            | N/A         | 1             | "                                     |



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO30870

Purchase Order Date 1/5/2016

PO Print Date 1/13/2016

Page Number 1 of 3

Order From :

VC-WMP001

WEJAY MACHINE PRODUCTS CO. LTD  
600 O'CONNOR DRIVE  
KINGSTON, ONTARIO K7P 1N3  
CANADA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

E-MAILED

REVISED QTY

Contact Name

Vendor Phone

613-384-1662

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

| Line Nbr    | Reference Vendor Part Number<br>Line Comments<br>Delivery Comments | Description/<br>Mfg ID | Req Date/<br>Taxable<br>Promise Date | CD | Req Qty/<br>Unit of<br>Measure | PO Unit Price | Extended Price |
|-------------|--------------------------------------------------------------------|------------------------|--------------------------------------|----|--------------------------------|---------------|----------------|
| 1           | D4822-1P<br><br>MACHINE AS PER DWG D4822 REV. C<br>B138910         | Upper Deflector, RH    | 2/23/2016<br>Yes<br>2/23/2016        |    | 8.00 /<br>Each                 | \$1,090.00    | \$8,720.00     |
| Line Total: |                                                                    |                        |                                      |    |                                |               | \$8,720.00     |
| 2           | D4822-2P<br><br>MACHINE AS PER DWG D4822 REV. C<br>B140388         | Upper Right Deflector  | 2/23/2016<br>Yes<br>2/23/2016        |    | 8.00 /<br>Each                 | \$1,090.00    | \$8,720.00     |
| Line Total: |                                                                    |                        |                                      |    |                                |               | \$8,720.00     |
| 4           | D4822-1P<br><br>MACHINE AS PER DWG D4822 REV. C<br>B140557         | Upper Deflector, RH    | 2/23/2016<br>Yes<br>2/23/2016        |    | 3 /<br>4.00<br>Each            | \$1,090.00    | \$4,360.00     |

9x 8/16-038

16/2/24

PO Instructions: quotation no. WJ-8785

Note:

1/13/2016



A.T.G. INDUSTRIES INC.  
731 INDUSTRIELLE STREET  
ROCKLAND, ON K4K 1T2  
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

### Pack List

Number: 911349

Date: 04-Mar-16

To

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

Ship To

CHANTAL LAVOIE

| Terms                                                                         |                                                      | Ship Via                |          |
|-------------------------------------------------------------------------------|------------------------------------------------------|-------------------------|----------|
| Quantity                                                                      | Description                                          |                         |          |
| PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT. |                                                      |                         |          |
| IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.                     |                                                      |                         |          |
| 9<br>ea                                                                       | Part: 140388<br>D4822-2 UPPER DEFLECTOR<br>Job: 9214 | Rev: C<br>PO: PO31446   | Line: 10 |
| 5<br>ea                                                                       | Part: 140558<br>D4822-2 UPPER DEFLECTOR<br>Job: 9215 | Rev: C<br>PO: PO31446   | Line: 11 |
| 172<br>ea                                                                     | Part: 141064<br>646.3210 SUPPORT<br>Job: 9208        | Rev: N/C<br>PO: PO31446 | Line: 4  |
| 2<br>ea                                                                       | Part: 140187<br>646.3210 SUPPORT<br>Job: 9209        | Rev: N/C<br>PO: PO31446 | Line: 5  |
| 14<br>ea                                                                      | Part: 141103<br>646.3810 FILLER<br>Job: 9210         | Rev: N/C<br>PO: PO31446 | Line: 6  |
| 15<br>ea                                                                      | Part: 141041<br>646.3810 BRACKET<br>Job: 9211        | Rev: N/C<br>PO: PO31446 | Line: 7  |
| 9<br>ea                                                                       | Part: 138910<br>D4822-1 UPPER<br>Job: 9212           | Rev: C<br>PO: PO31446   | Line: 8  |
| DATE: 4/3/16                                                                  |                                                      |                         |          |
| CERTIFIED SIGNATURE: [Signature]                                              |                                                      |                         |          |



A.T.G. INDUSTRIES INC.  
731 INDUSTRIELLE STREET  
ROCKLAND, ON K4K 1T2  
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

### Pack List

Number: 911349

Date: 04-Mar-16

To

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7

Ship To

CHANTAL LAVOIE

| Terms                                                                                                                                                                                                                                                                                                                                                               | Ship Via    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Quantity                                                                                                                                                                                                                                                                                                                                                            | Description |
| RECEIVER SIGNATURE: <u>SP16-03-8</u>                                                                                                                                                                                                                                                                                                                                |             |
| <p>Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.</p> <p>CERTIFICATE OF CONFORMANCE</p> <p>A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.</p> <p>MADE IN CANADA.</p> |             |



600 O'CONNOR DRIVE, KINGSTON, ONTARIO K7P 1N3

PHONE: (613) 384-1662

FAX: (613) 384-2997

## CERTIFICATE OF COMPLIANCE

CUSTOMER: Dart Aerospace

DATE: Feb. 11, 2016

P.O.# PO30870

WEJAY JOB# 37749

I hereby certify that the following material has been inspected/tested and conforms to the requirements and specifications as stated in your contract and as noted below.

| PART NO.                                                                                                       | QTY. | PROCESS (ES)                          | SPECIFICATION / REV |
|----------------------------------------------------------------------------------------------------------------|------|---------------------------------------|---------------------|
| D4822-1P                                                                                                       | 8    | Machined complete per drawing req'ts. | D4822 / rev. C      |
|                               |      |                                       |                     |
| D4822-2P<br>'Upper Right Hand Deflector'<br>B140388                                                            | 8    | Machined complete per drawing req'ts. | D4822 / rev. C      |
| D4822-1P<br>'Upper Left Hand Deflector'<br>B140557                                                             | 4    | Machined complete per drawing req'ts. | D4822 / rev. C      |
| D4822-2P<br>'Upper Right Hand Deflector'<br>B140558                                                            | 6    | Machined complete per drawing req'ts. | D4822 / rev. C      |
| Note: 1) Each part is tagged with 'Dart' Material Batch number.<br>2) 1st Article Inspection reports attached. |      |                                       |                     |

Records of Inspection/Test will be retained for 5 years minimum.

Sincerely,



**Clifford Smith**

Authorized Q.A. Signatory



600 O'CONNOR DRIVE  
KINGSTON, ONTARIO  
K7P 1N3

# INSPECTION / TEST REPORT

JOB No. 37749

PAGE: 1 of 1

CUSTOMER: Dart Aerospace

CUST. P.O.# PD30870

PART No. D4822-2

DESCRIPTION: Deflector Right Hand

DWG No. D4822

REV. C

E.C.O. --

MATERIAL:

INSPECTOR: *[Signature]*

QUANTITY  
REC'D: 1

ACCEPT: 1

REJECT: —

N.C.R.# —

DATE: FEB 5/16

INSTRUCTIONS, COMMENTS: Standard Tolerances per DART QSI 018 unless otherwise noted

| ITEM<br>REF.<br>No. | CHARACTERISTIC<br>(DIMS IN mm)     | DETAILS     | TOLERANCE     | DWG<br>SHT/ZONE | RESULT      | QTY.<br>INSP. | COMMENTS<br>(ACC. REJ.<br>REW. NMR #) |
|---------------------|------------------------------------|-------------|---------------|-----------------|-------------|---------------|---------------------------------------|
| 1                   | 47°                                | View D-D    | ±.5°          | 3/B5            | 46.5°       | 1             | Acc.                                  |
| 2                   | 83°                                |             | ±.5°          | 3/B2            | 82.5°       | 1             | "                                     |
| 3                   | R 0.38" typ.                       |             | ±.03          | 3/B1            | R.38 TYP.   | 1             | "                                     |
| 4                   | 3.30"                              |             | ±.03          | 3/C5            | 3.311       | 1             | "                                     |
| 5                   | 0.79" typ.                         |             | ±.03          | 3/B1            | .780/.795   | 1             | "                                     |
| 6                   | 2.47                               |             | ±.03          | 3/B3            | 2.460/2.477 | 1             | "                                     |
| 7                   | R 0.13 typ.                        |             | ±.03          | 3/C4            | R.125 TYP.  | 1             | "                                     |
| 8                   | 29.29"                             |             | ±.03          | 3/C3            | 29.3        | 1             | "                                     |
| 9                   | R0.50" typ                         |             | ±.03          | 3/D5            | R.500 TYP.  | 1             | "                                     |
| 10                  | Ø0.206 hole thru                   | 10 pl.      | +0.005/-0.001 | 3/D1            | .208 Ø TYP. | 1             | "                                     |
| 11                  | 2.441"                             |             | ±.010         | 3/D4            | 2.444       | 1             | "                                     |
| 12                  | 3.256" typ.                        | 8 pl.       | ±.010         | 3/D4            | 3.255/3.258 | 1             | "                                     |
| 13                  | 0.65" typ.                         | 10 pl.      | ±.03          | 3/D5            | .649/.651   | 1             | "                                     |
| 14                  | 0.157"                             | Section E-E | ±.01          | 3/D6            | .159/.161   | 1             | "                                     |
| 15                  | R0.13" typ. → .197" RAD ON E-MODEL |             | ±.03          | 3/D7            | R.190 TYP.  | 1             | "                                     |
| 16                  | .099"                              |             | ±.01          | 3/D7            | .101/.106   | 1             | "                                     |
| 17                  | 1.04"                              |             | ±.03          | 3/D8            | 1.044/1.047 | 1             | "                                     |
| 18                  | 1.87"                              | Section F-F | ±.03          | 3/C7            | 1.874/1.877 |               | "                                     |
| 19                  | 0.236"                             |             | ±.01          | 3/C7            | .238/.243   | 1             | "                                     |
| 20                  | 0.157"                             |             | ±.01          | 3/B6            | .159/.161   | 1             | "                                     |
| 21                  | 2.01"                              |             | ±.03          | 3/B7            | 2.008/2.015 | 1             | "                                     |
| 22                  | 1.04"                              |             | ±.03          | 3/B8            | 1.044/1.047 | 1             | "                                     |
| 23                  | R0.13" → .197" RAD ON E-MODEL      |             | ±.10          | 3/B7            | R.190 TYP.  | 1             | "                                     |
| 24                  | Deburring                          | Per note 5  | .005-.010     | 3/A8            | PASSED      | 1             | "                                     |
| 25                  | Identification                     | Per note 6  |               | 3/A8            | N/A         | 1             | "                                     |